SV320 BIOS
User Manual

Version 1.1

Published Dec 2012

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BIOS Setup

This section explains how to use BIOS utility to configure the system. Please press <F1> during the Power-On-Self-Test (POST) to enter the BIOS SETUP, otherwise, POST will continue with its test routines.

Menu Bar

The top of the screen is designed with a menu of following selections:

Main: Provided information of AMIBIOS, Processor and System Memory, to set up System Time and System Date.

Advanced: To set up Advanced Settings such as CPU, Mass Storage Controller, Memory, USB, IPMI, and Remote Access Configurations.

Chipset: To set up the Advanced Chipsets Settings.

Server Mgmt: To set up the System Event Log, System Information and BMC Network Configurations.

Boot: To set up Boot Settings Configuration, Boot Device Priority and Hard Disk Drive.

Security: To set up the security features.

Save & Exit: To exit the current screen or the BIOS SETUP.

Use < ENTER >, <TAB > or < SHIFT-TAB > key or to select a field on the menu bar.

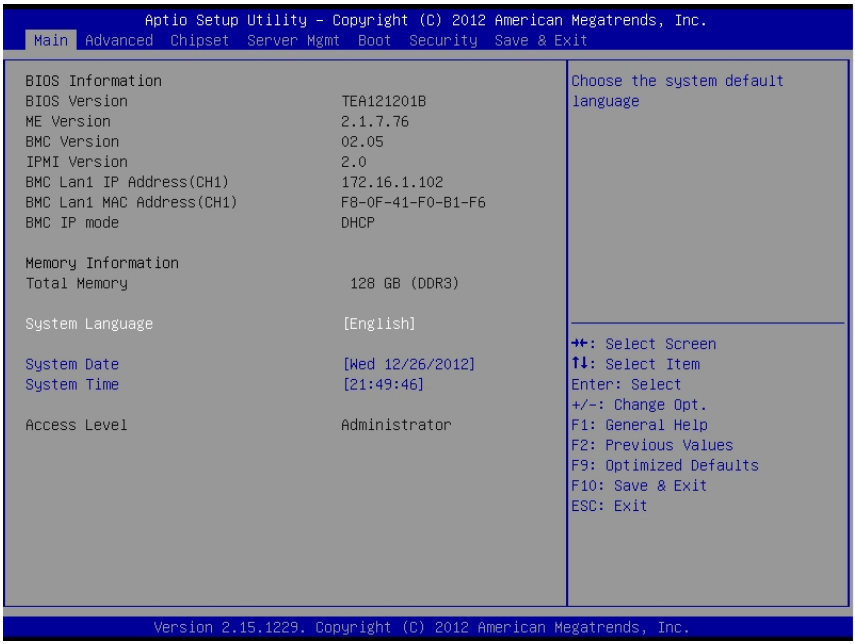
Navigation Keys

Please check the following navigation keys for their functions:

Navigation Key(s)	Function Description
<←>	Select Screen
<↑><↓>	Select Item
<+> <->	Change Field
<Tab>	Select Field
<F1>	General Help
<F10>	Save and Exit
<ESC>	Exit

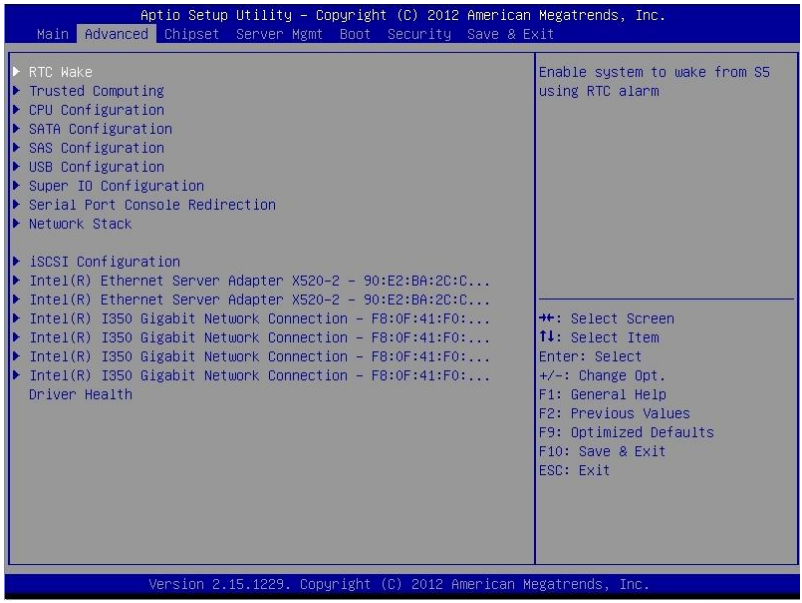
1. Main Screen

When you enter the BIOS SETUP UTILITY, the Main screen will appear and display the System Overview. You may use the navigation keys to change the System Language, System Time and System Date.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
BIOS Information
BIOS Version TEA121201B
ME Version 2.1.7.76
BMC Version 02.05
IPMI Version 2.0
BMC Lan1 IP Address(CH1) 172.16.1.102
BMC Lan1 MAC Address(CH1) F8-0F-41-F0-B1-F6
BMC IP mode DHCP
Memory Information
Total Memory 128 GB (DDR3)
System Language [English]
System Date [Wed 12/26/2012]
System Time [21:49:46]
Access Level Administrator
Choose the system default language
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

2. Advanced Settings

In the Advanced Settings screen, you can set up RTC Wake, Trusted Computing, CPU, SATA, SAS, USB, Super IO Configuration, Serial Port Console Redirection, Network Stack, iSCSI Configurations, Network Connection and Driver Health.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
RTC Wake
Trusted Computing
CPU Configuration
SATA Configuration
SAS Configuration
USB Configuration
Super IO Configuration
Serial Port Console Redirection
Network Stack
iSCSI Configuration
Intel(R) Ethernet Server Adapter X520-2 - 90:E2:BA:2C:C...
Intel(R) Ethernet Server Adapter X520-2 - 90:E2:BA:2C:C...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Driver Health
Enable system to wake from S5 using RTC alarm
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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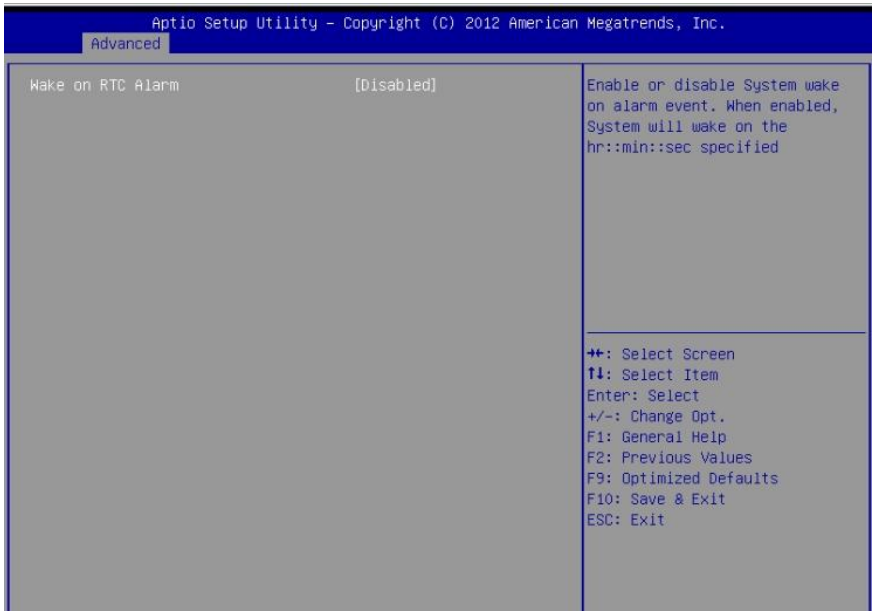
Warning: Setting wrong values in the Advanced Settings may cause system malfunction.

2.1 RTC Wake

Enable or disable System Wake on alarm event. When this function is enabled, system will wake up on the specific time that previously set.

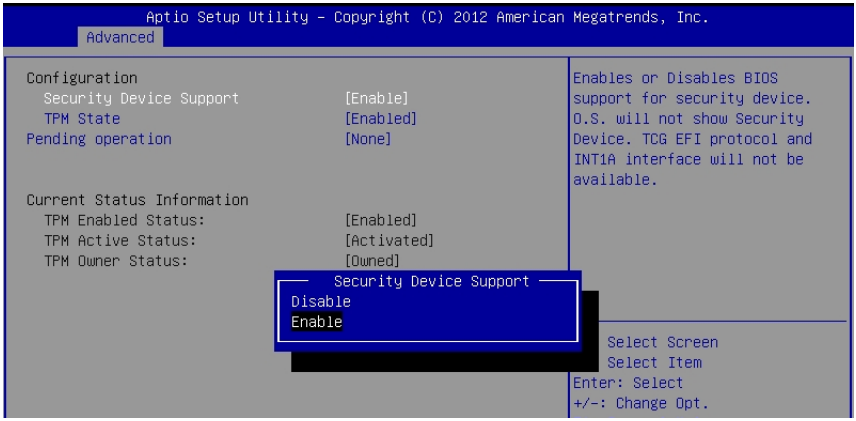

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Wake on RTC Alarm
[Disabled]
Enable or disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

2.2 Trusted Computing

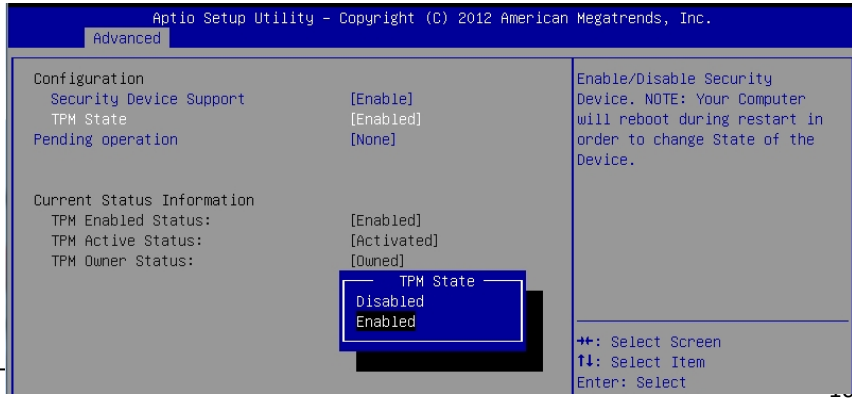
The Trusted Computing page enables or disables BIOS support for data integrity and to improve network security.

The **TPM** authenticates the computer in question rather than the user. To do so, TPM stores information specific to the host system, such as encryption keys, digital certificates and passwords.

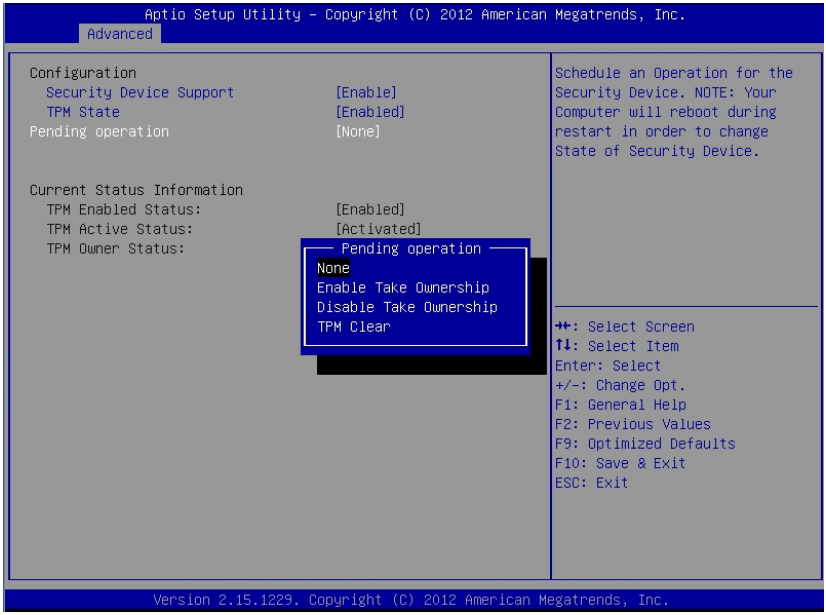
The default setting of Security Device Support is [**Enable**].


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Configuration
Security Device Support [Enable]
TPM State [Enabled]
Pending operation [None]
Current Status Information
TPM Enabled Status: [Enabled]
TPM Active Status: [Activated]
TPM Owner Status: [Owned]
Security Device Support
Disable
Enable
Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.
Select Screen
Select Item
Enter: Select
+/-: Change Opt.

The default of TPM State is [**Enable**].



The default setting of Pending operation is [**None**].


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Configuration
Security Device Support [Enable]
TPM State [Enabled]
Pending operation [None]
Current Status Information
TPM Enabled Status: [Enabled]
TPM Active Status: [Activated]
TPM Owner Status:
Pending operation
None
Enable Take Ownership
Disable Take Ownership
TPM Clear
Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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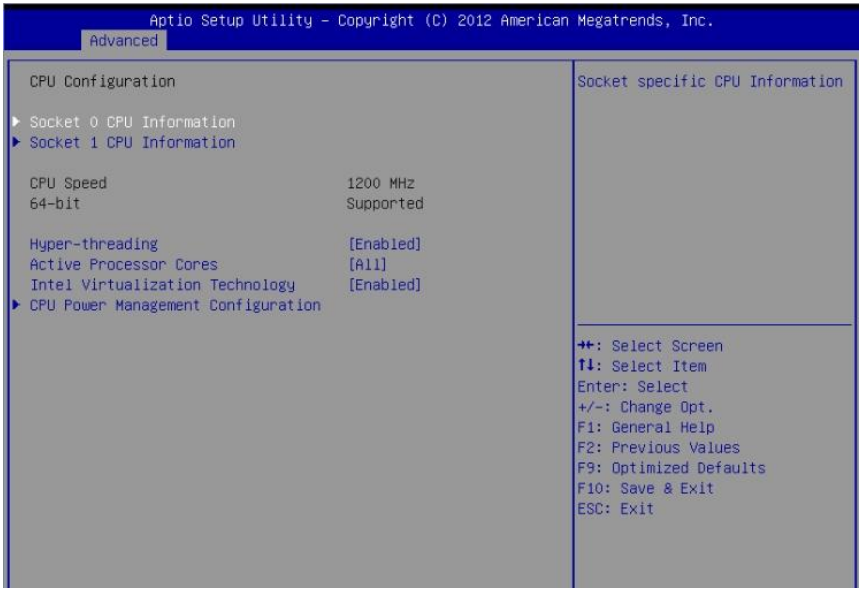
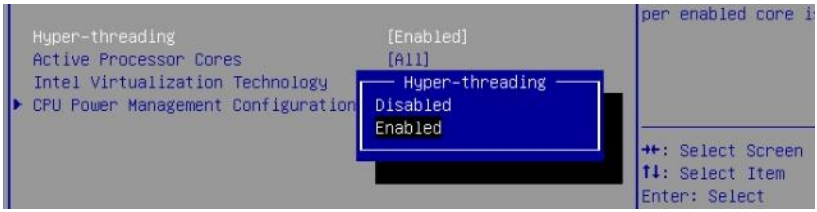
2.3 CPU configuration

The CPU configuration page displays the configured advanced CPU settings. It also allows you to configure the CPU function items as follow:



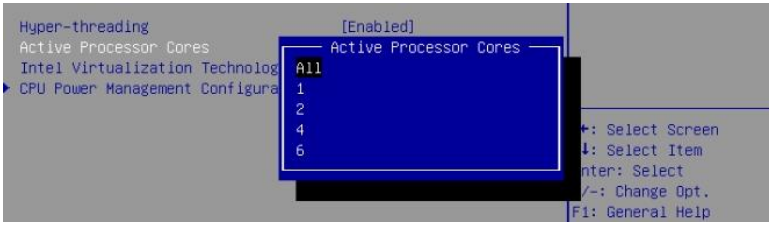
Hyper-threading:

Intel® Hyper-Threading Technology (Intel® HT Technology) uses processor resources more efficiently, enabling multiple threads to run on each core. Intel® HT Technology increases processor throughput, improving overall performance on threaded software. The default value is **[Enabled]**.



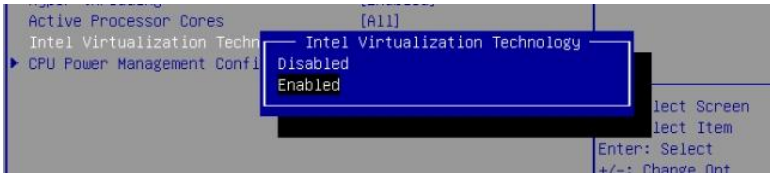
Active Processor Cores:

Use this item to select the number of cores to enable in each processor package, there are options of [**All**], [1], [2], [4] and [6]. The default value is [All].



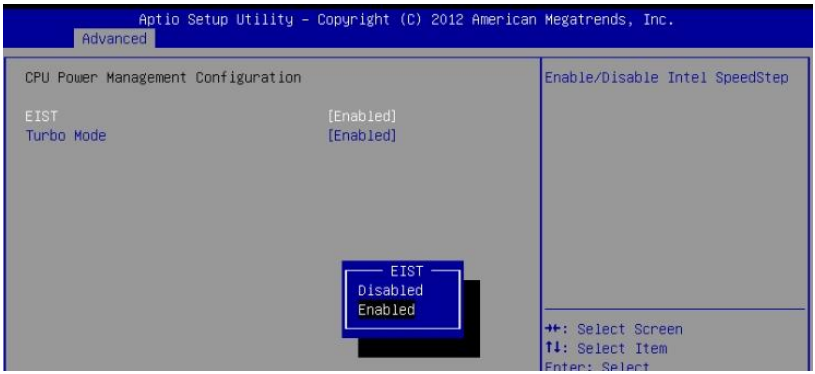
Intel® Virtualization Tech:

Increasing manageability, security, and flexibility in IT environments, virtualization technologies like hardware-assisted Intel® Virtualization Technology (Intel® VT) combined with software-based virtualization solutions provide maximum system utilization by consolidating multiple environments into a single server or PC. This option will be hidden if the installed CPU does not support Intel Virtualization Technology. The default value is [**Enabled**].



CPU Power Management Configuration: Use this item to Enable or Disable Intel® SpeedStep tech.

Intel® SpeedStep technology is Intel's new power saving technology. Processor can switch between multiple frequency and voltage points to enable power savings. The default value is [**Enabled**]. This item will be hidden if the current CPU does not support Intel® SpeedStep technology.

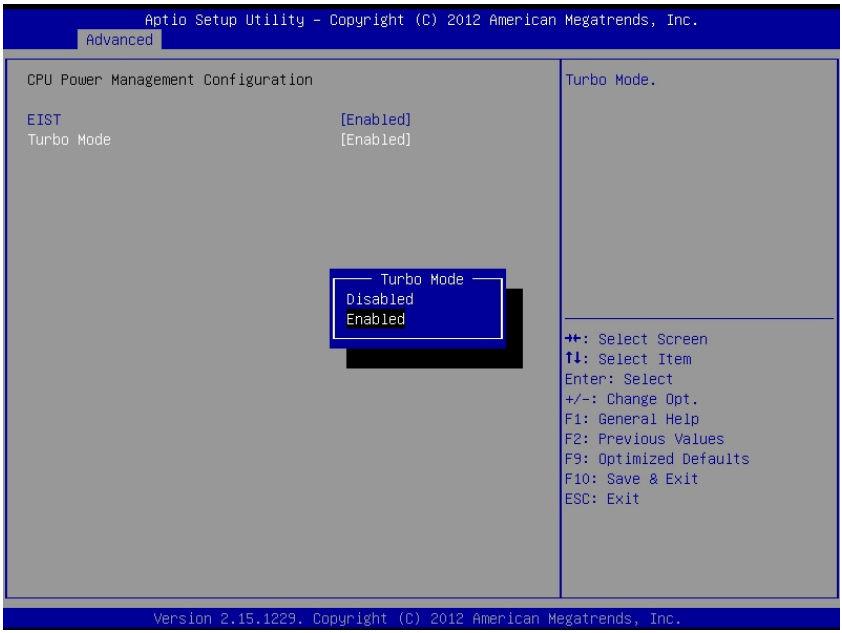


Turbo Mode:

This function can dynamically overclock one or two of its four processing cores to improve performance.

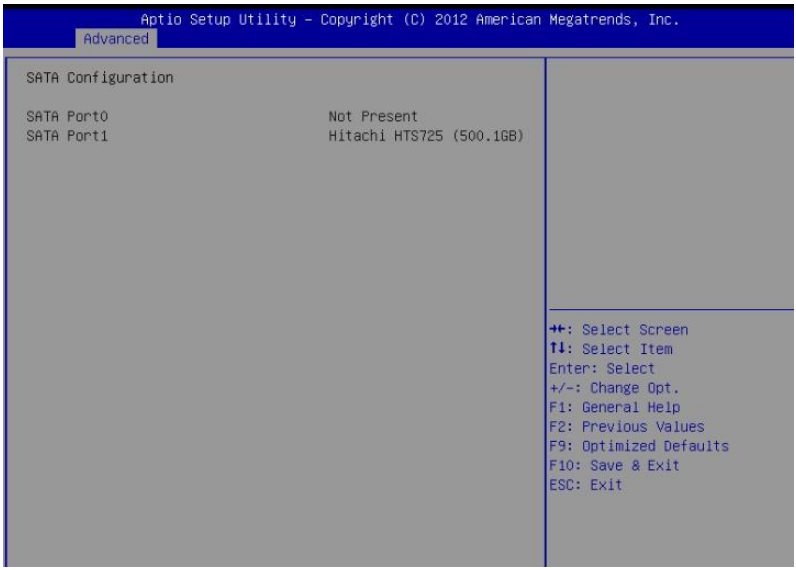
When it is **enabled**, the processor will automatically ramp up the clock speed of 1-2 of its processing cores to improve its performance without affecting its thermal output or power consumption. When it is **disabled**, the processor will not overclock any of its cores. All its processing cores will run at the same clock speed.

It is highly recommended that you **enable** this BIOS option to improve its performance. However, you should **disable** this BIOS option if you are already overclocking the processor.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
CPU Power Management Configuration
EIST [Enabled]
Turbo Mode [Enabled]
Turbo Mode.
Turbo Mode
Disabled
Enabled
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

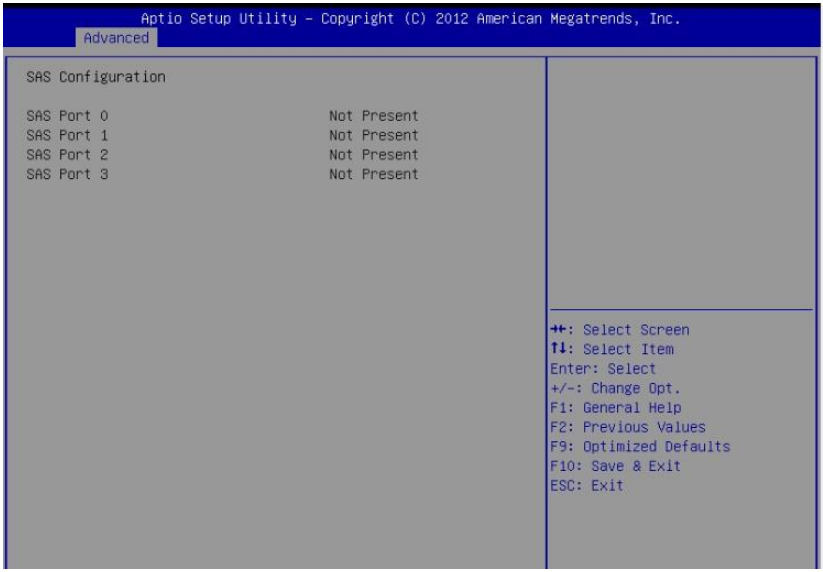
2.4 SATA Configuration

The SATA Configuration shows SATA ports information.



2.5 SAS Configuration

The SAS Configuration shows SAS ports information.



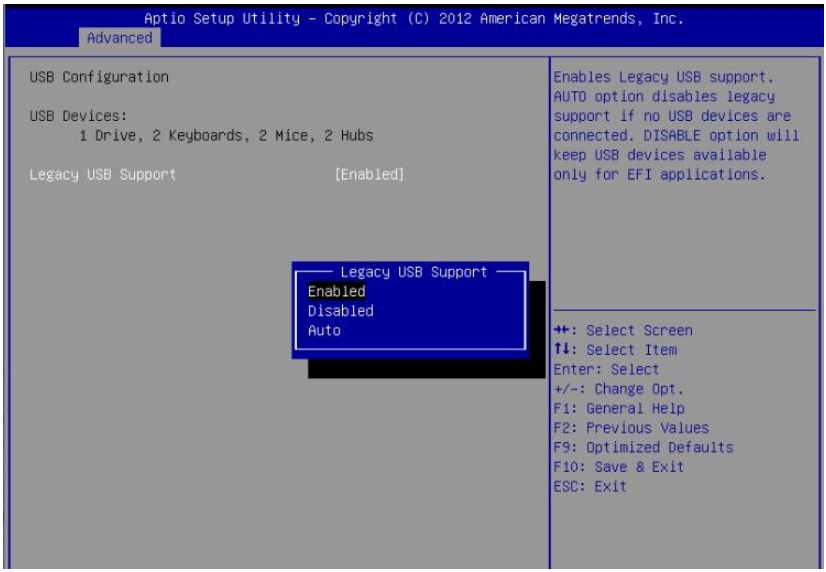
2.6 USB Configuration

This BIOS feature determines if the BIOS should provide legacy support for USB devices like the keyboard, mouse and floppy drive.

When enabled, you will be able to use these USB devices even with operating systems that do not support USB. When disabled, you will not be able to use these USB devices with operating systems that do not support USB.

The default value is **[Enabled]**.

If you have USB compatibility issue, it is recommended to select [Disabled] to enter OS.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
USB Configuration
USB Devices:
1 Drive, 2 Keyboards, 2 Mice, 2 Hubs
Legacy USB Support [Enabled]
Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
Legacy USB Support
Enabled
Disabled
Auto
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

2.7 Super IO Configuration

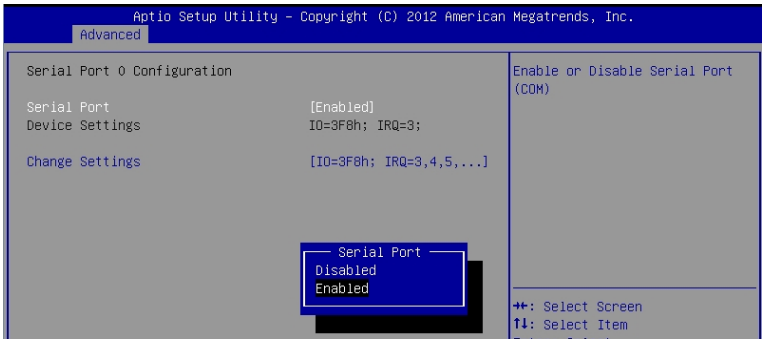
Super I/O is a class of I/O controller. It combines interfaces for a variety of low-bandwidth devices. The functions provided usually include:

- A floppy disk controller
- A parallel port (commonly used for printers)
- One or more serial ports
- A keyboard and mouse interface
- Temperature sensor and fan speed monitoring

This function allows you to view the super I/O chip, and configure Serial Port setting.

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Super IO Configuration
Super IO Chip
SMSC PILOT3
Serial Port 0 Configuration
Set Parameters of Serial Port 0 (COMA)

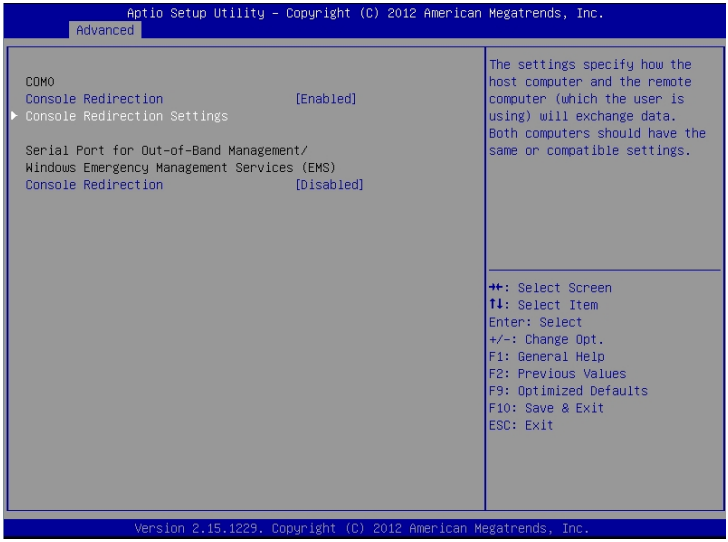
After clicking on the Serial Port O Configuration, you may enable or disable Serial Port (COM). The default value is **[Enabled]**.



If you install a new component that must use a specific IRQ (Interrupt Request to the CPU), the new component will not work until the IRQ specified is assigned. To assign a specific IRQ to a new component, click on the **Change Settings** to select an optimal setting.

2.8 Serial Port Console Redirection

To manage your host remotely from a serial console, you can redirect the console to a serial port. Use this option to enable or disable the Console Redirection function. The default value is [**Disabled**].


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
COM0
Console Redirection [Enabled]
Console Redirection Settings
Serial Port for Out-of-Band Management/
Windows Emergency Management Services (EMS)
Console Redirection [Disabled]
The settings specify how the host computer and the remote computer (which the user is using) will exchange data. Both computers should have the same or compatible settings.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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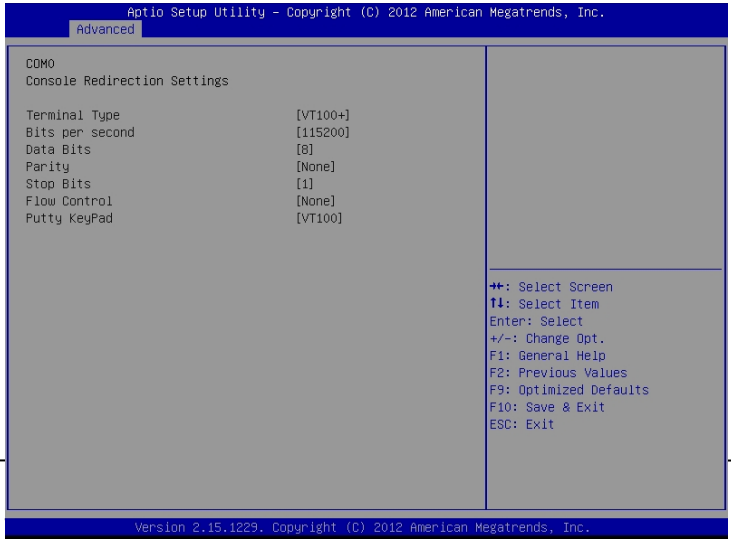

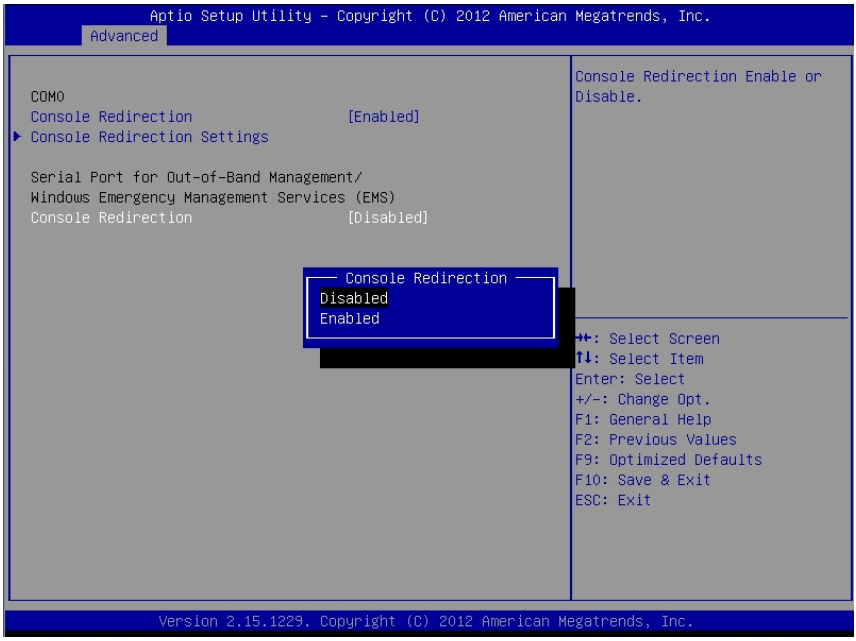
Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
COM0
Console Redirection [Enabled]
Console Redirection Settings
Serial Port for Out-of-Band Management/
Windows Emergency Management Services (EMS)
Console Redirection [Disabled]
Console Redirection
Disabled
Enabled
Console Redirection Enable or Disable.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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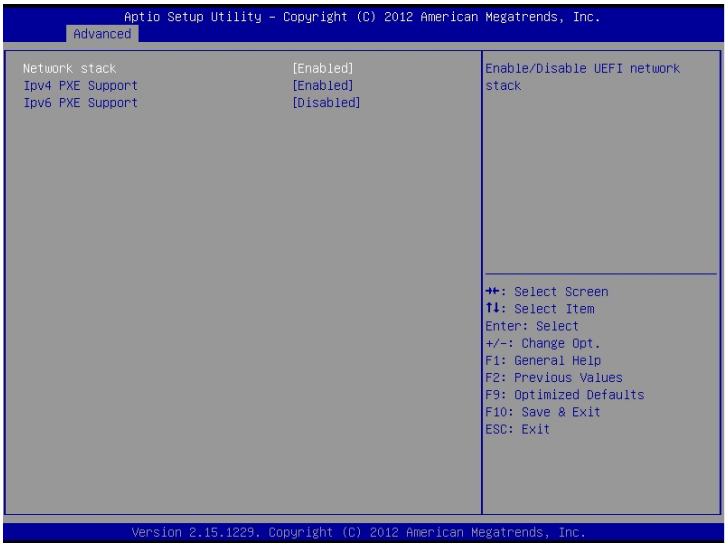
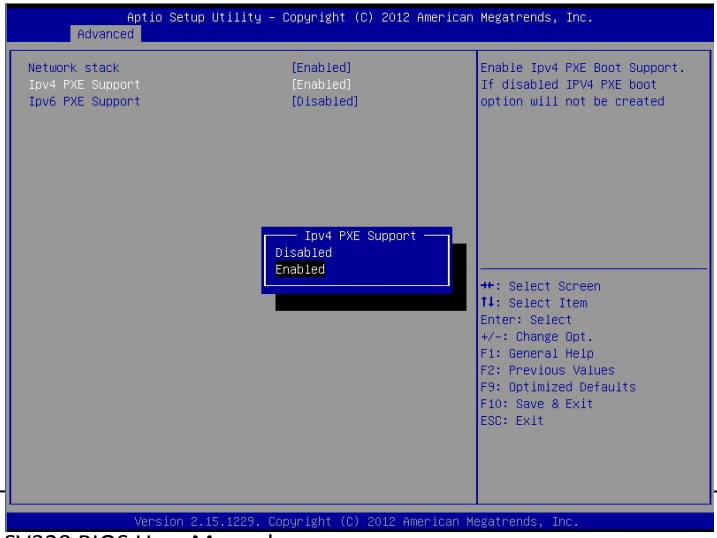
2.9 Network Stack

The network stack is a mostly single-threaded cross-platform library primarily for resource fetching. The default setting of Network Stack is [**Disabled**].




Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Network stack [Enabled]
Ipv4 PXE Support [Enabled]
Ipv6 PXE Support [Disabled]
Enable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot option will not be created
Ipv4 PXE Support
Disabled
Enabled
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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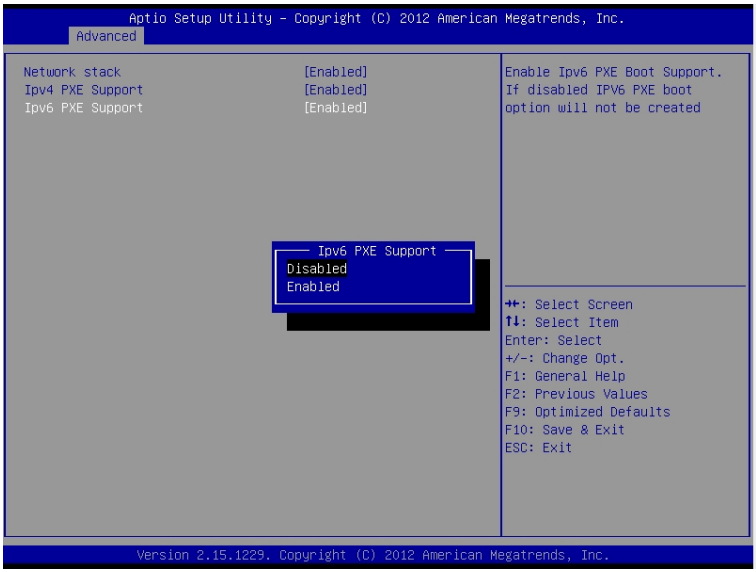
Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Network stack [Enabled]
Ipv4 PXE Support [Enabled]
Ipv6 PXE Support [Enabled]
Enable Ipv6 PXE Boot Support.
If disabled IPV6 PXE boot
option will not be created
Ipv6 PXE Support
Disabled
Enabled
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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2.10 iSCSI Configuration

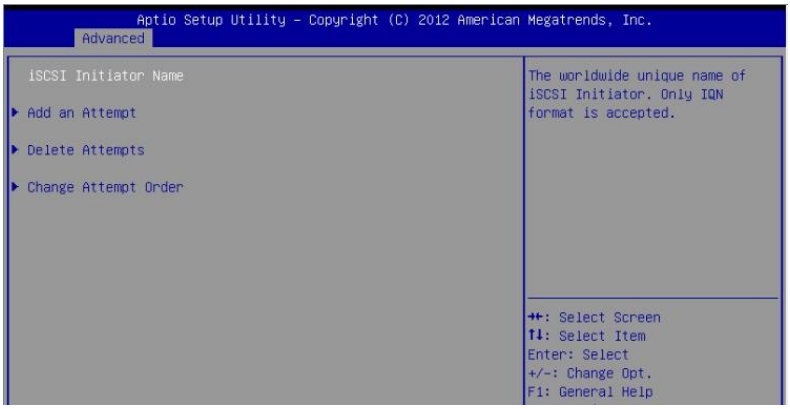
iSCSI, is an IP-based storage networking standard for linking data storage facilities.

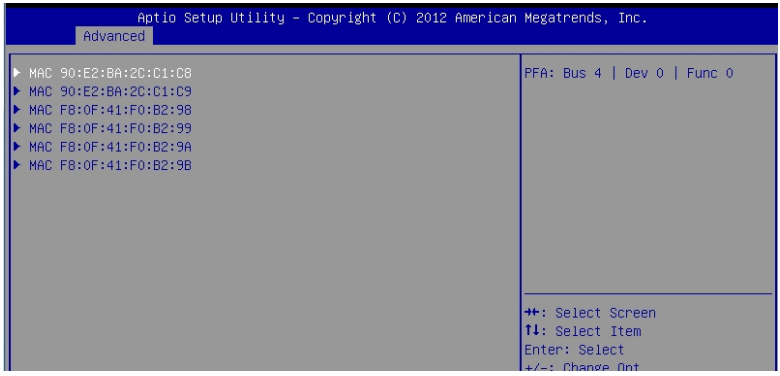
Add an Attempt: Add one linking setting

Delete Attempts: Delete specific linking setting

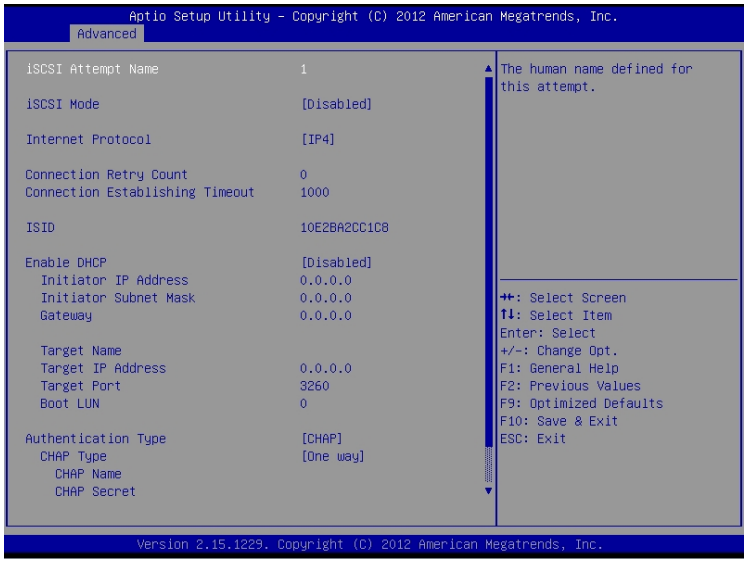
Change Attempt Order: if you have more than one linking settings, you may set the sequence.

You may **Add/Delete Attempts** and **Change Attempt Order** here.

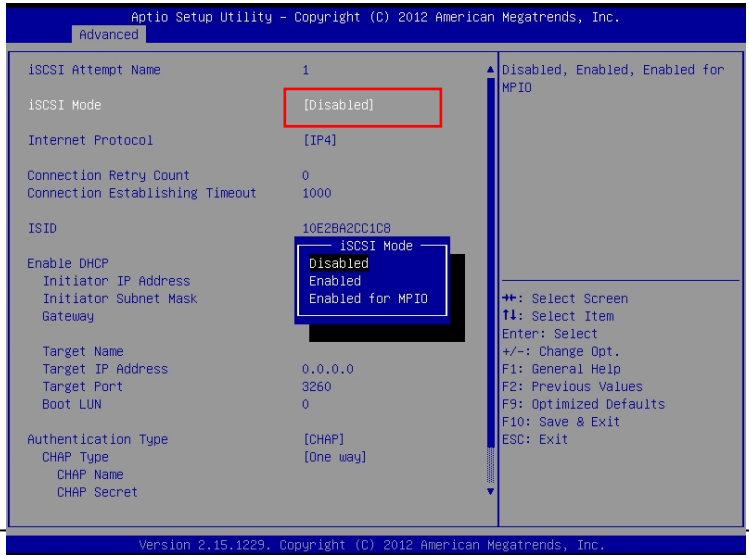

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
iSCSI Initiator Name
Add an Attempt
Delete Attempts
Change Attempt Order
The worldwide unique name of iSCSI Initiator. Only IQN format is accepted.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help

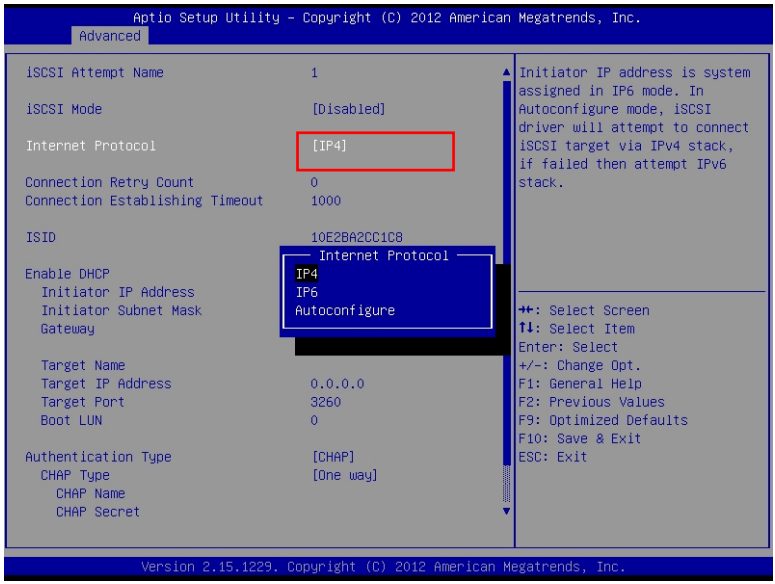


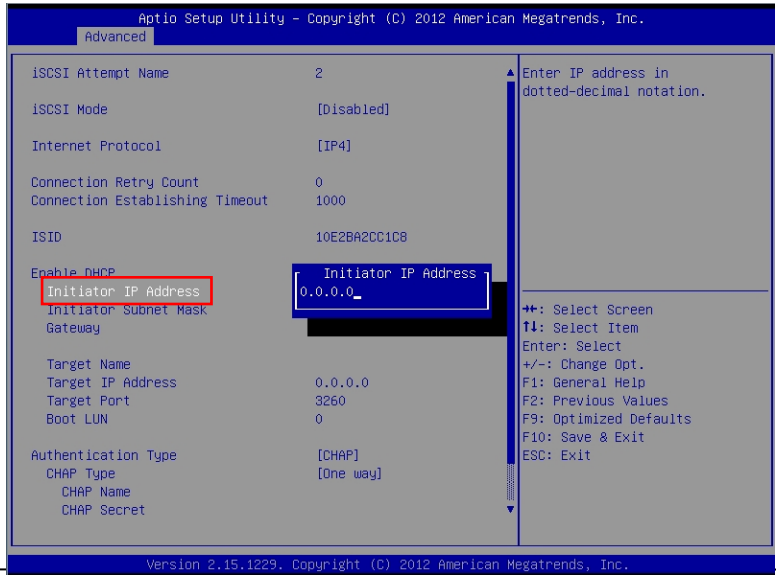
After adding an Attempt, you will be prompted to set the ISCSI Attempt No. 1 configuration.

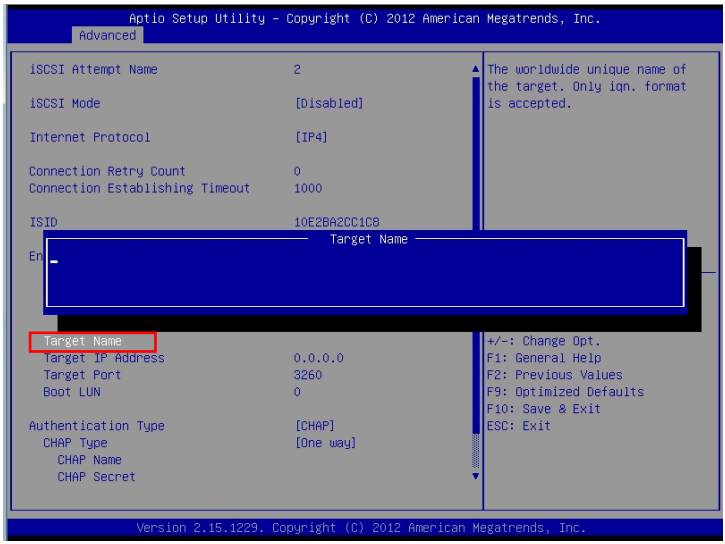


Enabled or Disabled the iSCSI Mode will initiate different items.

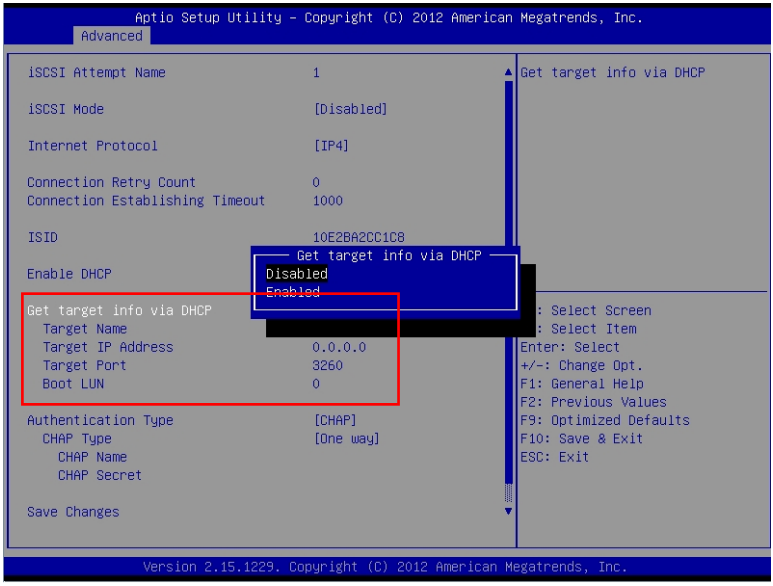


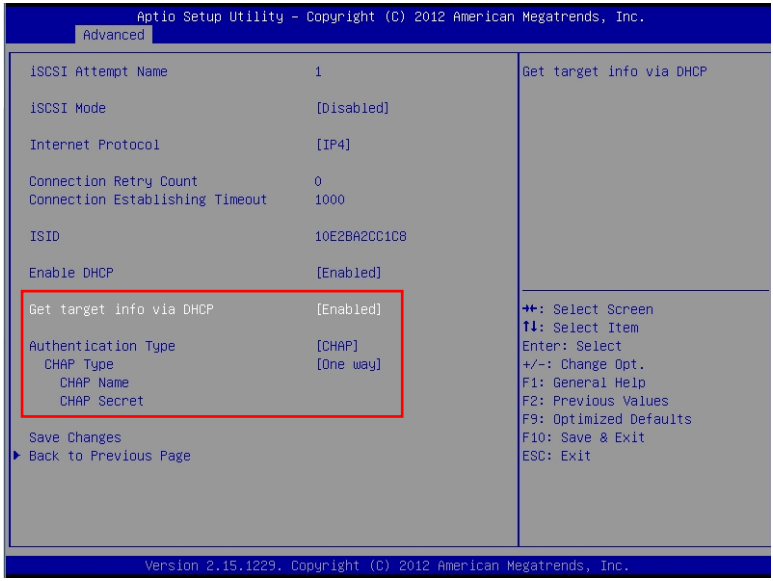

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
iSCSI Attempt Name 1
iSCSI Mode [Disabled]
Internet Protocol [IP4]
Connection Retry Count 0
Connection Establishing Timeout 1000
ISID 10E2BA2CC1C8
Enable DHCP
Initiator IP Address
Initiator Subnet Mask
Gateway
Target Name
Target IP Address 0.0.0.0
Target Port 3260
Boot LUN 0
Authentication Type [CHAP]
CHAP Type [One way]
CHAP Name
CHAP Secret
Internet Protocol
IP4
IP6
Autoconfigure
Initiator IP address is system assigned in IP6 mode. In Autoconfigure mode, iSCSI driver will attempt to connect iSCSI target via IPv4 stack, if failed then attempt IPv6 stack.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
iSCSI Attempt Name 2
iSCSI Mode [Disabled]
Internet Protocol [IP4]
Connection Retry Count 0
Connection Establishing Timeout 1000
ISID 10E2BA2CC1C8
Enable DHCP
Initiator IP Address
Initiator Subnet Mask
Gateway
Target Name
Target IP Address 0.0.0.0
Target Port 3260
Boot LUN 0
Authentication Type [CHAP]
CHAP Type [One way]
CHAP Name
CHAP Secret
Initiator IP Address
0.0.0.0
Enter IP address in dotted-decimal notation.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

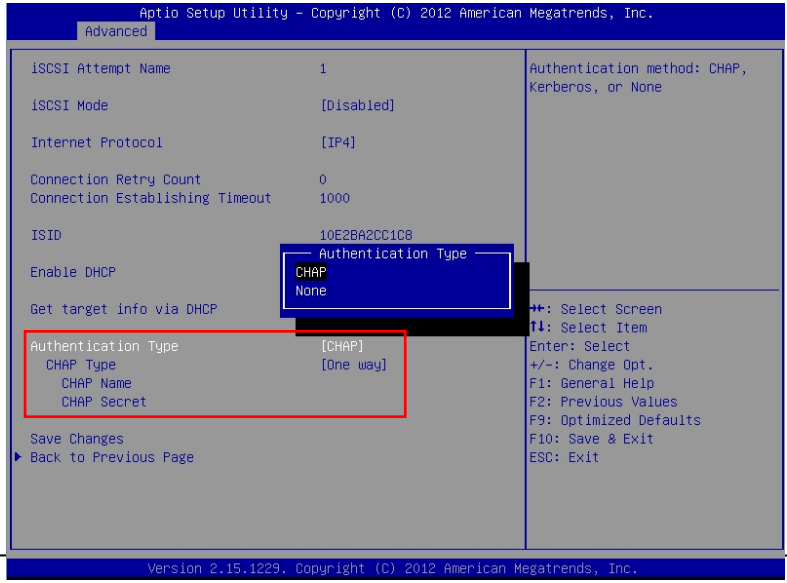


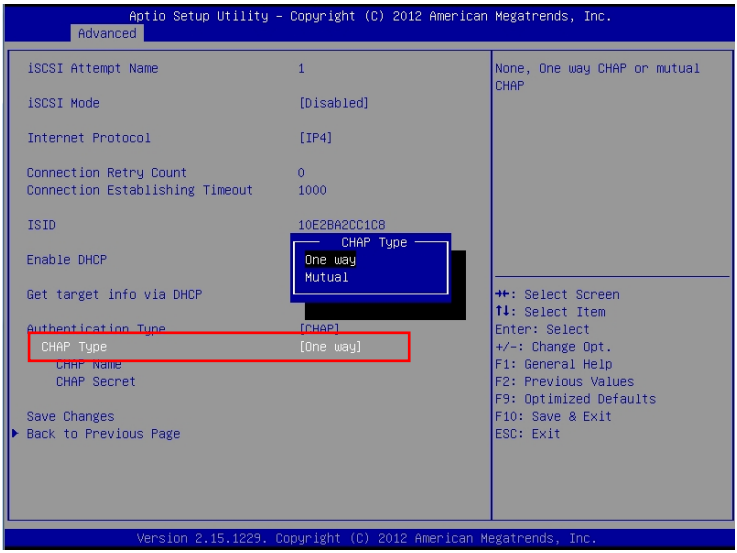
Enabled and Disabled the DHCP will also initiate different items.

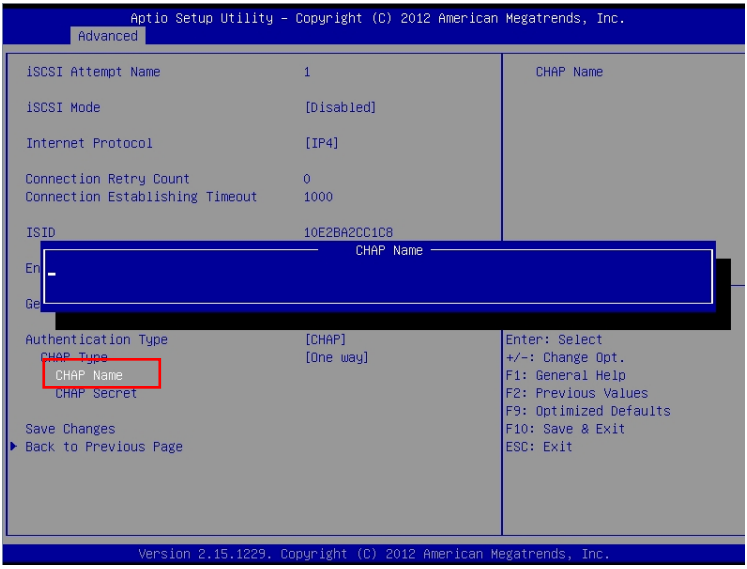


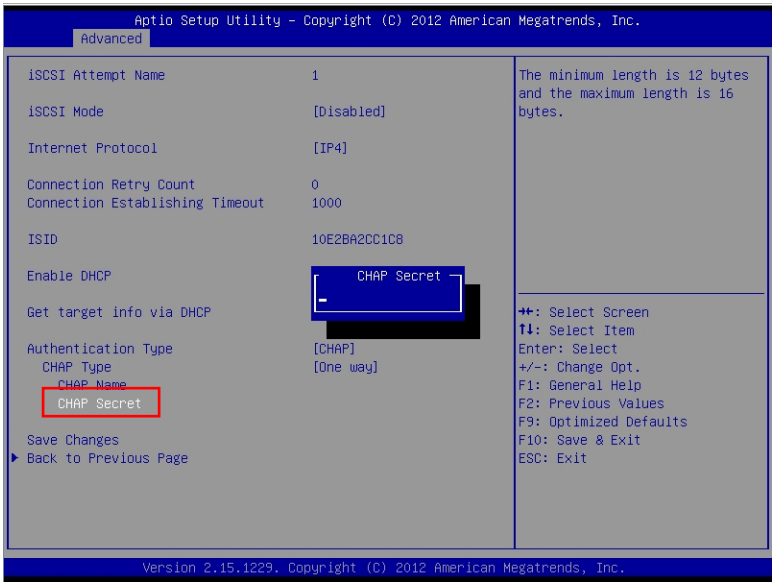


Fill in CHAP Type information.

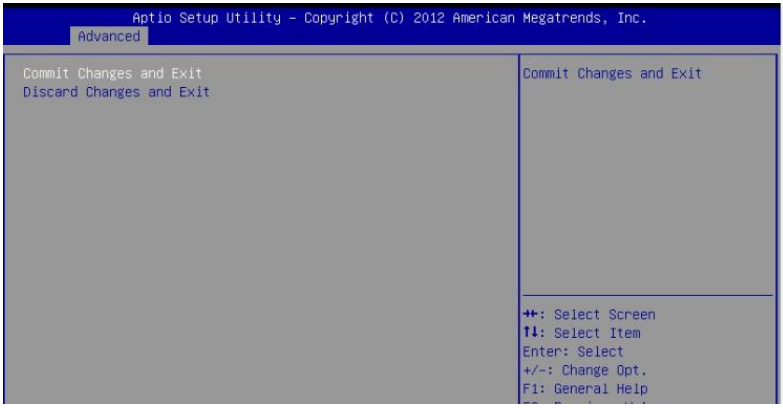



Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
iSCSI Attempt Name 1
iSCSI Mode [Disabled]
Internet Protocol [IP4]
Connection Retry Count 0
Connection Establishing Timeout 1000
ISID 10E2BA2CC1C8
Enable DHCP
Get target info via DHCP
Authentication Type [CHAP]
CHAP Type [One way]
CHAP Name
CHAP Secret
Save Changes
Back to Previous Page
CHAP Type
One way
Mutual
None, One way CHAP or mutual CHAP
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
iSCSI Attempt Name 1
iSCSI Mode [Disabled]
Internet Protocol [IP4]
Connection Retry Count 0
Connection Establishing Timeout 1000
ISID 10E2BA2CC1C8
CHAP Name
Authentication Type [CHAP]
CHAP Type [One way]
CHAP Name
CHAP Secret
Save Changes
Back to Previous Page
CHAP Name
CHAP Name
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

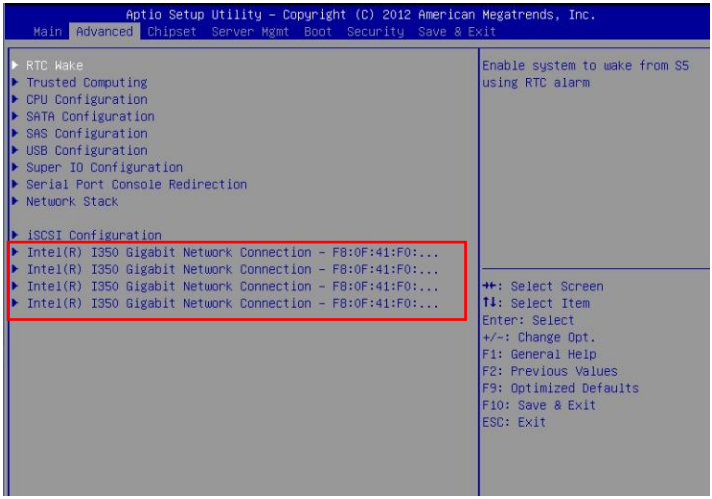


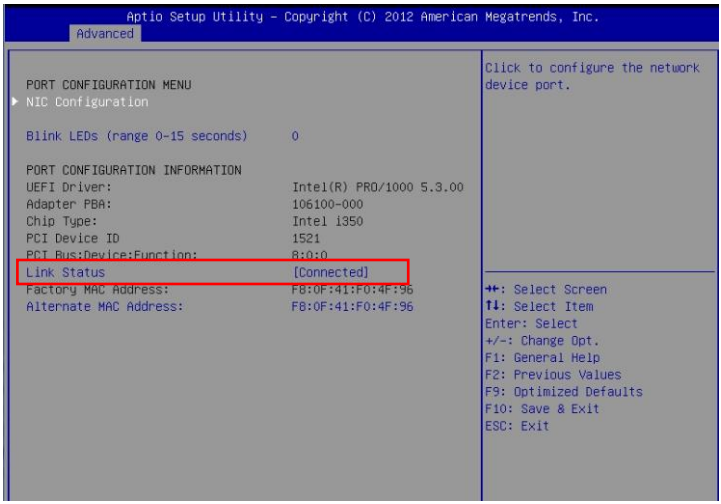
Once you have decided on your changes, select [**Commit Changes and Exit**] to exit the BIOS SETUP or select [**Discard Changes and Exit**] to get back to the previous screen.



2.11 NIC Configuration

This function allows you to configure network port, and Link Status.

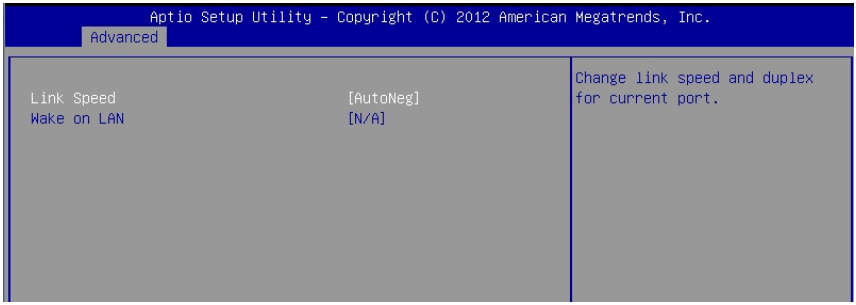

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
RTC Wake
Trusted Computing
CPU Configuration
SATA Configuration
SAS Configuration
USB Configuration
Super IO Configuration
Serial Port Console Redirection
Network Stack
iSCSI Configuration
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Intel(R) I350 Gigabit Network Connection - F8:0F:41:F0:...
Enable system to wake from S5 using RTC alarm
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit



You may change the speed and duplex mode of network card in order to troubleshoot network access problems.

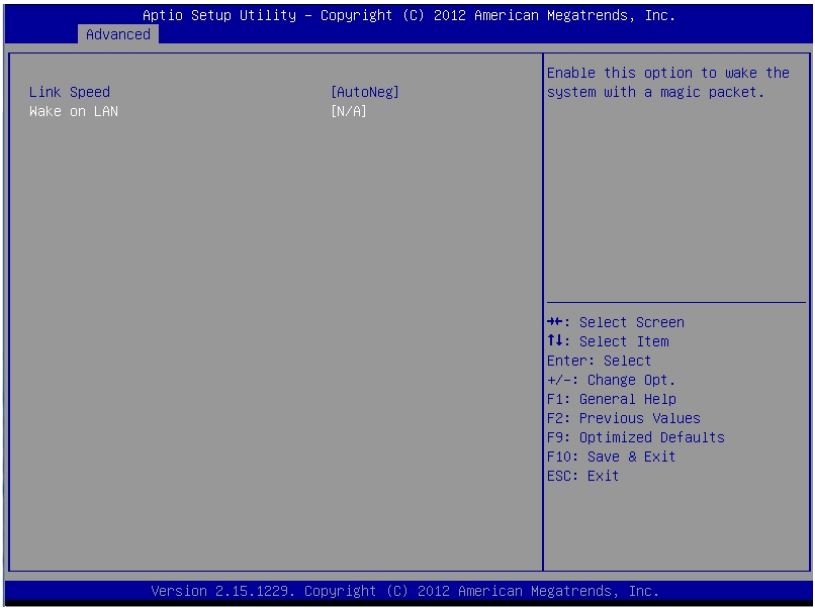
AutoNeg (Auto Negotiation) is an Ethernet procedure by which two connected devices choose common transmission parameters, such as speed, duplex mode, and flow control.

The options are AutoNeg or other specific modes (10Mbps Half, 10Mbps Full, 100Mbps half, 100Mbps Full, etc). The default value is [AutoNeg].



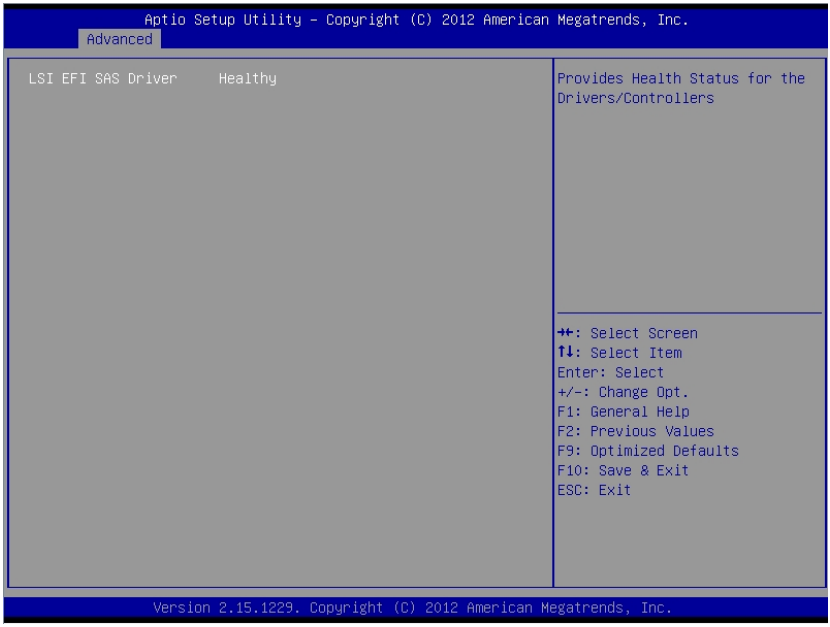
Note: Most of the time the network card should work well by having auto, auto mode or auto negotiation setting, but sometimes it can cause slow network or Internet access problem. If you know the speed/duplex mode of connected router/switches, you can set to specific speed/duplex setting and test it. If not sure, test on all different settings.

Wake on LAN function is available. However, it is not able to be shown in this version of BIOS due to the driver issue. The default value is [**N/A**].


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
Link Speed [AutoNeg]
Wake on LAN [N/A]
Enable this option to wake the system with a magic packet.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

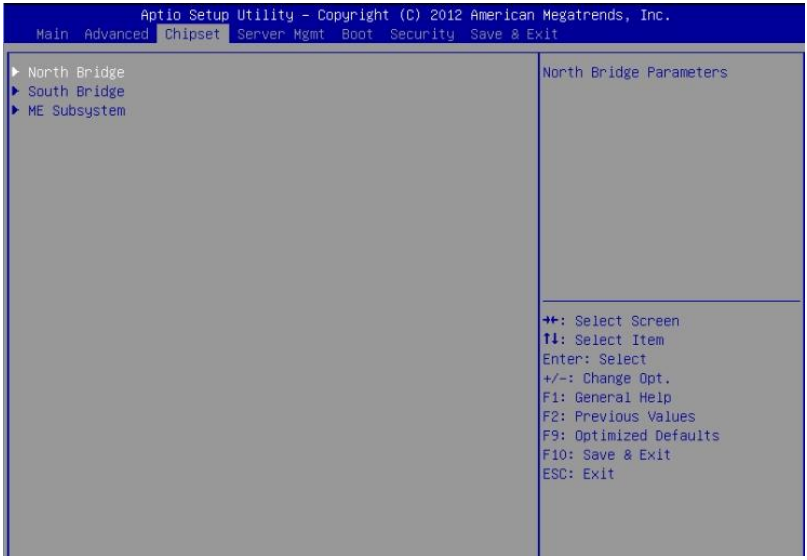
2.12 Driver Health

Driver Health allows you to check the healthiness of drivers.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Advanced
LSI EFI SAS Driver Healthy
Provides Health Status for the Drivers/Controllers
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

3. Chipset Configuration

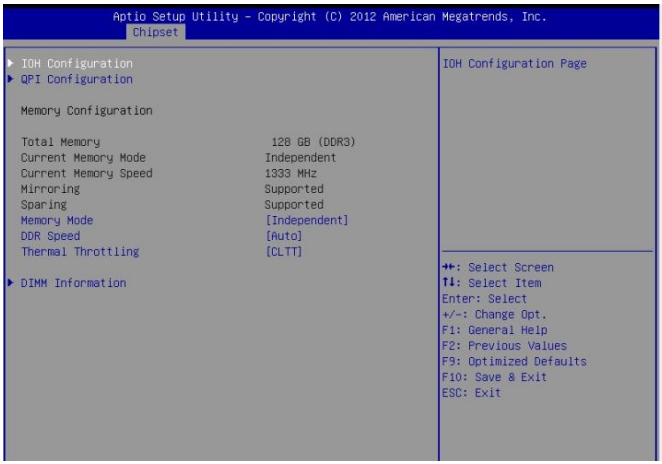
Advanced Chipset Settings allows you to configure North Bridge, South Bridge and ME Subsystem features.



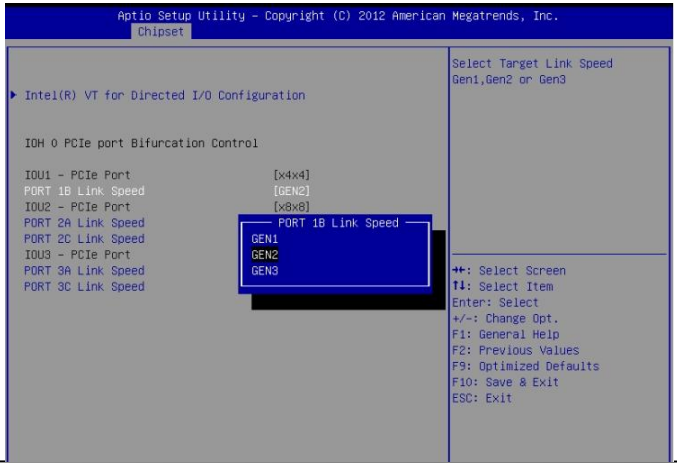
Warning: Setting wrong values in below sections may cause system malfunction.

3.1 North Bridge

North Bridge page allows you to set IOH and QPI configuration, DIMM information, set Memory Mode, DDR Speed, Thermal Throttling.

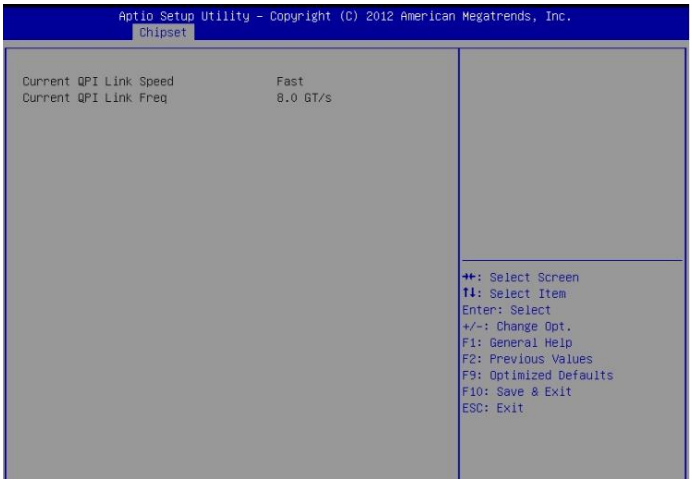


Use **PCIe Port Bifurcation Control** to select the desired type of PCI-Exp Generation support for the slot indicated. The options are GEN1, GEN2, and GEN3.

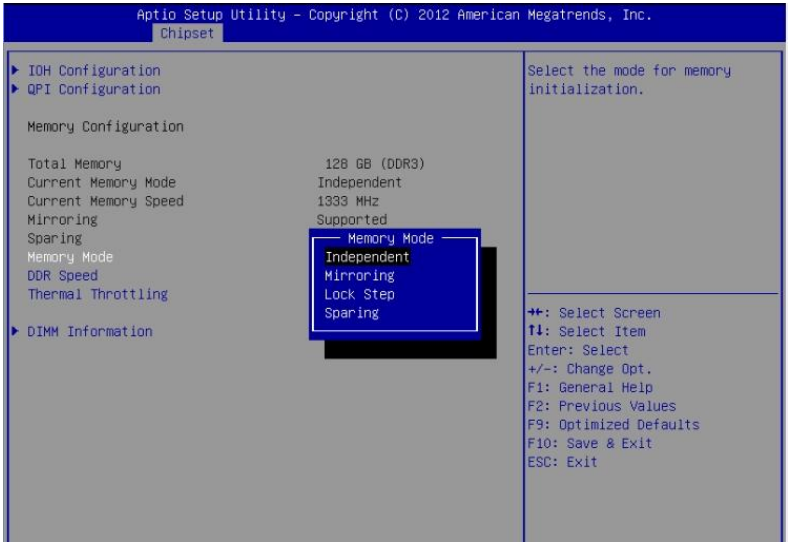


QPI (Intel QuickPath Interconnect) is a point-to-point processor interconnect developed by Intel which replaces the front-side bus (FSB) in Xeon, Itanium, and certain desktop platforms.

The QPI Configuration page shows the current QPI Link Speed and Frequency.



There are several memory modes available for selection. They are Independent, Mirroring, Lock Step, and Sparing. The default value is [**Independent**].



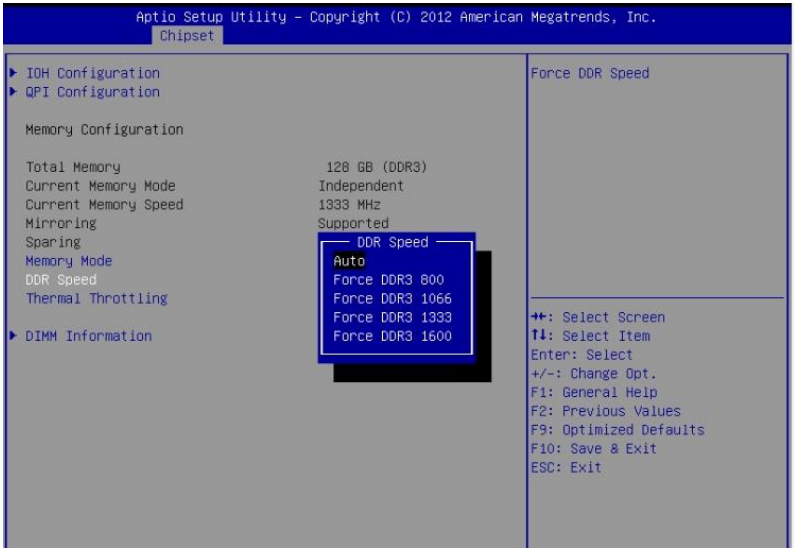
[**Independent**]: Independent Channel

[**Mirroring**]: System reliability is optimized by using half the system memory as backup.

[**Lockstep**]: If the DIMM pairs in the server have an identical type, size, and organization and are populated across the SMI channels, you can enable lockstep mode to minimize memory access latency and provide better performance.

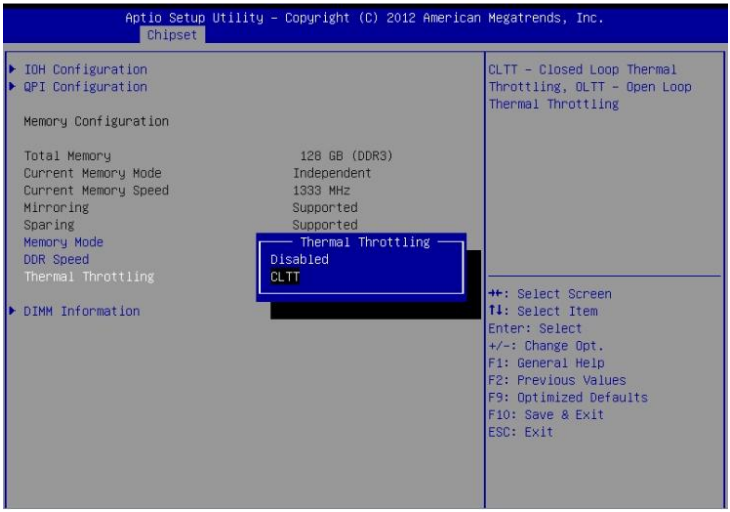
[**Sparing**]: System reliability is enhanced with a degree of memory redundancy while making more memory available to the operating system than mirroring.

The DDR Speed default value is [**Auto**], but you may select different DDR Speed according to system configuration. There are options of Force DDR3 800, 1066, 1333, 1600 for selection in this case.

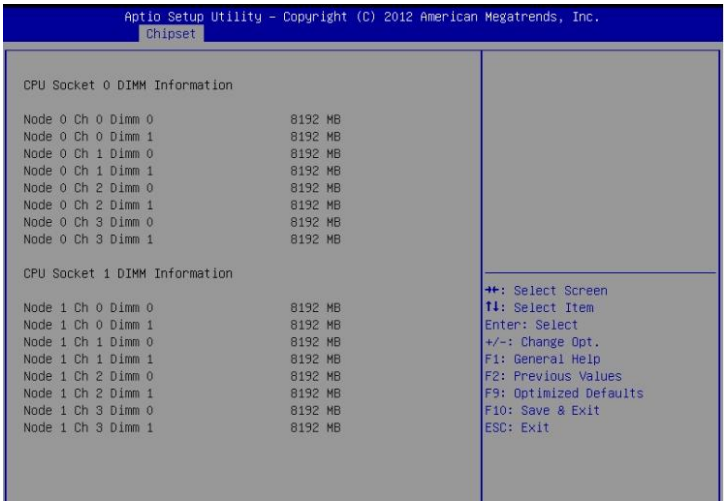


Thermal Throttling is used to to prevent memory from overheating without the processor or memory using additional power. The options are: Closed Loop Thermal Throttling (CLTT), and Disabled.

The default value is [**CLTT**].



DIMM information:


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Chipset
CPU Socket 0 DIMM Information
Node 0 Ch 0 Dimm 0 8192 MB
Node 0 Ch 0 Dimm 1 8192 MB
Node 0 Ch 1 Dimm 0 8192 MB
Node 0 Ch 1 Dimm 1 8192 MB
Node 0 Ch 2 Dimm 0 8192 MB
Node 0 Ch 2 Dimm 1 8192 MB
Node 0 Ch 3 Dimm 0 8192 MB
Node 0 Ch 3 Dimm 1 8192 MB
CPU Socket 1 DIMM Information
Node 1 Ch 0 Dimm 0 8192 MB
Node 1 Ch 0 Dimm 1 8192 MB
Node 1 Ch 1 Dimm 0 8192 MB
Node 1 Ch 1 Dimm 1 8192 MB
Node 1 Ch 2 Dimm 0 8192 MB
Node 1 Ch 2 Dimm 1 8192 MB
Node 1 Ch 3 Dimm 0 8192 MB
Node 1 Ch 3 Dimm 1 8192 MB
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

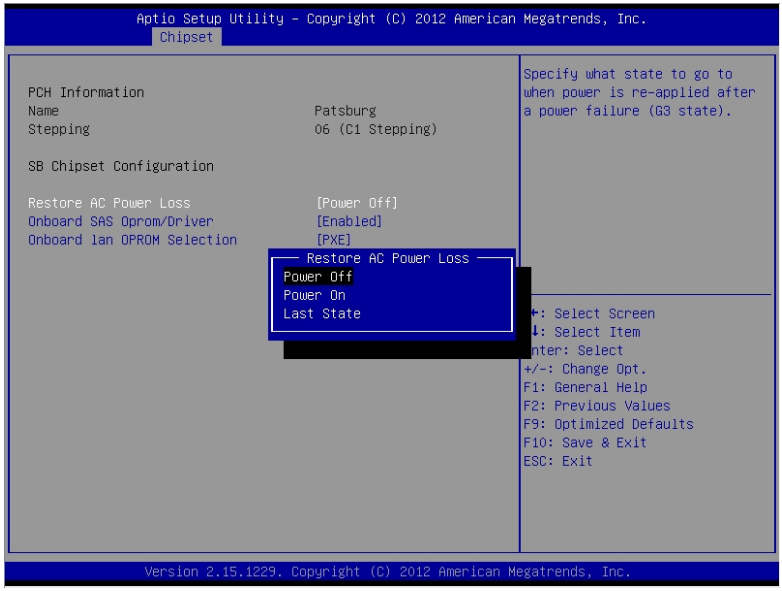
3.2 South Bridge

South Bridge page allows you to configure Restore AC Power Loss, Onboard SAS Oprom/Driver, and Onboard Ian OPROM Selection.

Restore on AC Power Loss allows you to set the power state after an unexpected AC/power loss.

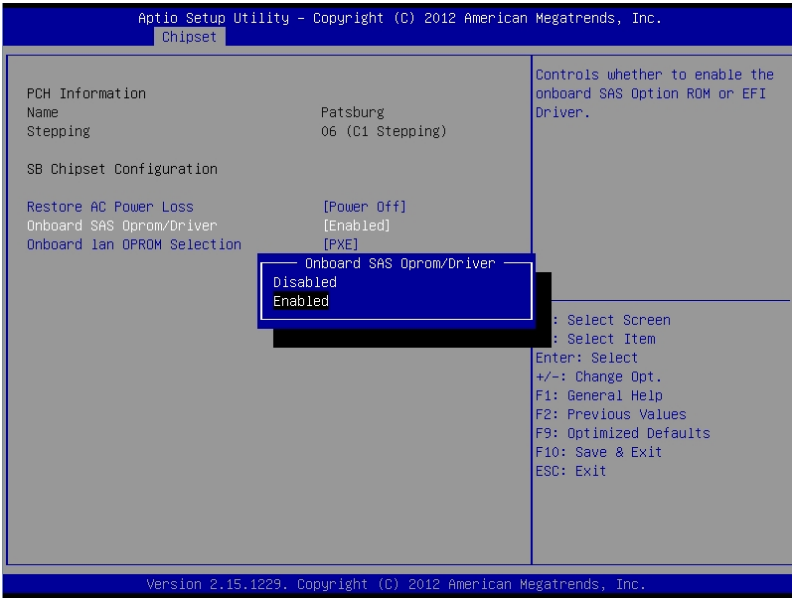
If [Power Off] is selected, the AC/power remains off when the power recovers. If [Power On] is selected, the AC/power resumes and the system starts to boot up when the power recovers.

The default value is [**Last State**], which means the A/C Power resumes the system to the Last State when the power recovers from un unexpected AC/power loss .

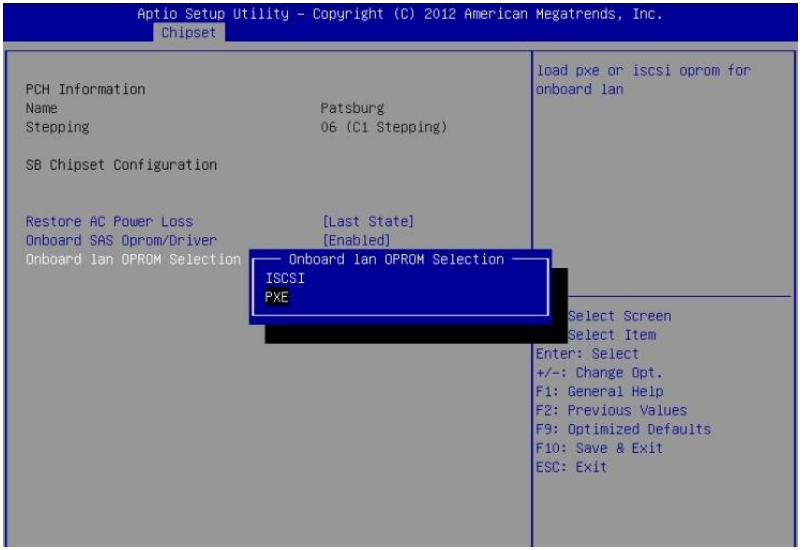


(**O**ption **ROM**) Oprom is the firmware on adapter cards that control bootable peripherals. The system BIOS interrogates the option ROMs to determine which devices can be booted.

You may enable or disable the Onboard SAS Oprom/Driver. The default setting is **[Enabled]**.

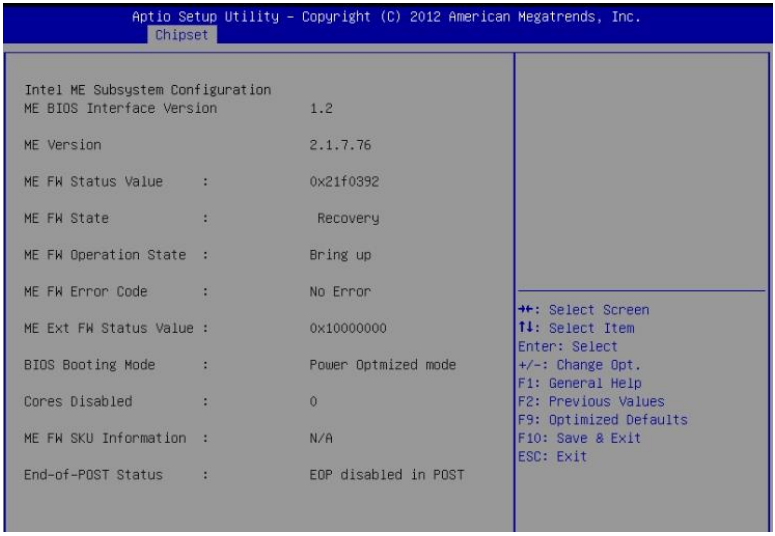


You may choose either PXE or iSCSI Oprom for onboard LAN. The default selection is [**PXE**].



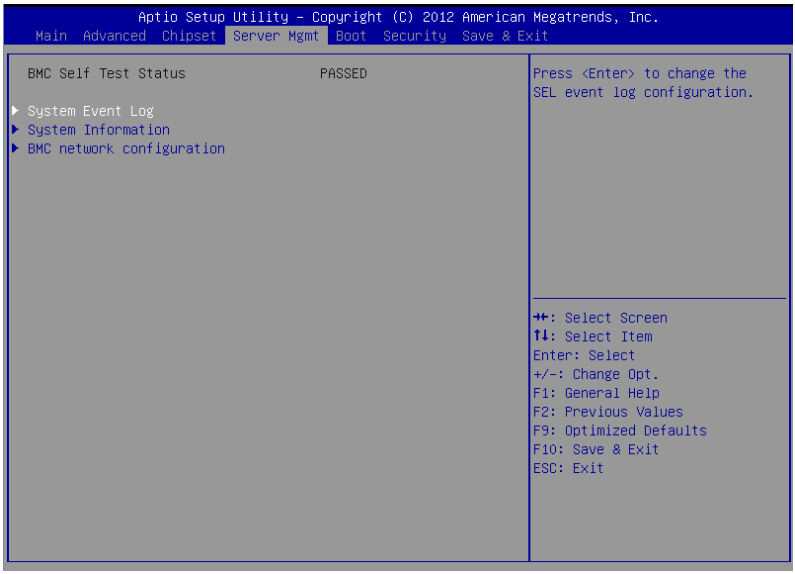
3.3 ME Subsystem

The ME Subsystem page shows all ME information.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Chipset
Intel ME Subsystem Configuration
ME BIOS Interface Version 1.2
ME Version 2.1.7.76
ME FW Status Value : 0x21f0392
ME FW State : Recovery
ME FW Operation State : Bring up
ME FW Error Code : No Error
ME Ext FW Status Value : 0x10000000
BIOS Booting Mode : Power Optmized mode
Cores Disabled : 0
ME FW SKU Information : N/A
End-of-POST Status : EOP disabled in POST
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

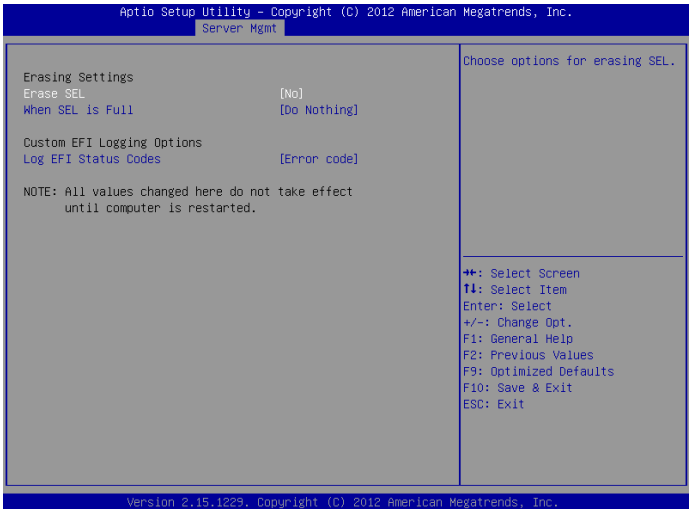
4. Server Mgmt

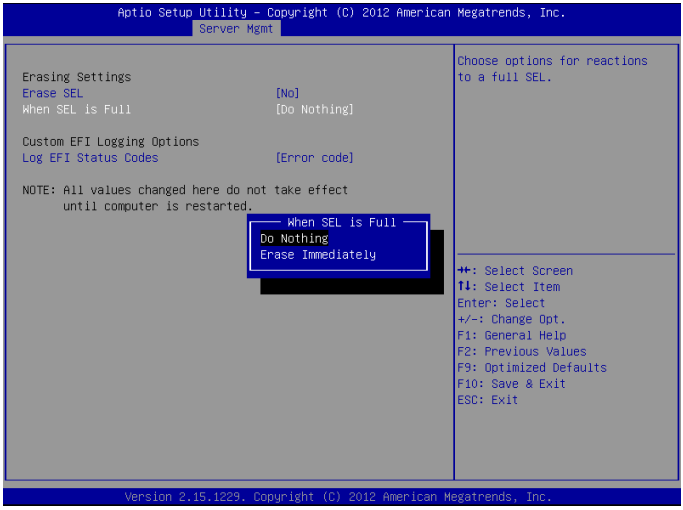
The Server Management includes function of System Event Log, System Information and BMC Network Configuration.

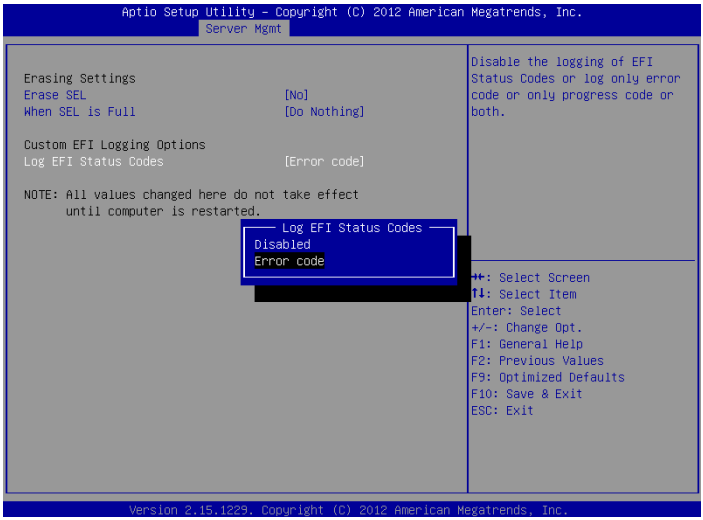

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
BMC Self Test Status PASSED
System Event Log
System Information
BMC network configuration
Press <Enter> to change the SEL event log configuration.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

4.1 System Event log

The options here are associated with SEL settings. You may change the settings here to enable or disable all features of SEL during Boot.

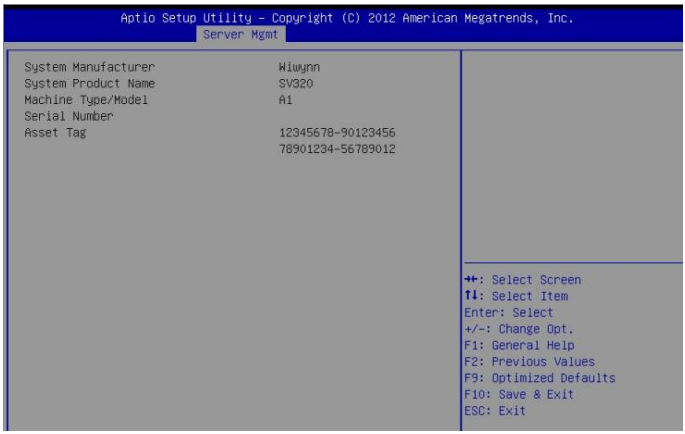

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Server Mgmt
Erasing Settings
Erase SEL [No]
When SEL is Full [Do Nothing]
Custom EFI Logging Options
Log EFI Status Codes [Error code]
NOTE: All values changed here do not take effect until computer is restarted.
Choose options for erasing SEL.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Server Mgmt
Erasing Settings
Erase SEL [No]
When SEL is Full [Do Nothing]
Custom EFI Logging Options
Log EFI Status Codes [Error code]
NOTE: All values changed here do not take effect until computer is restarted.
When SEL is Full
Do Nothing
Erase Immediately
Choose options for reactions to a full SEL.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Server Mgmt
Erasing Settings
Erase SEL [No]
When SEL is Full [Do Nothing]
Custom EFI Logging Options
Log EFI Status Codes [Error code]
NOTE: All values changed here do not take effect until computer is restarted.
Log EFI Status Codes
Disabled
Error code
Disable the logging of EFI Status Codes or log only error code or only progress code or both.
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

4.2 System Information

System Information shows system manufacturer and related information.

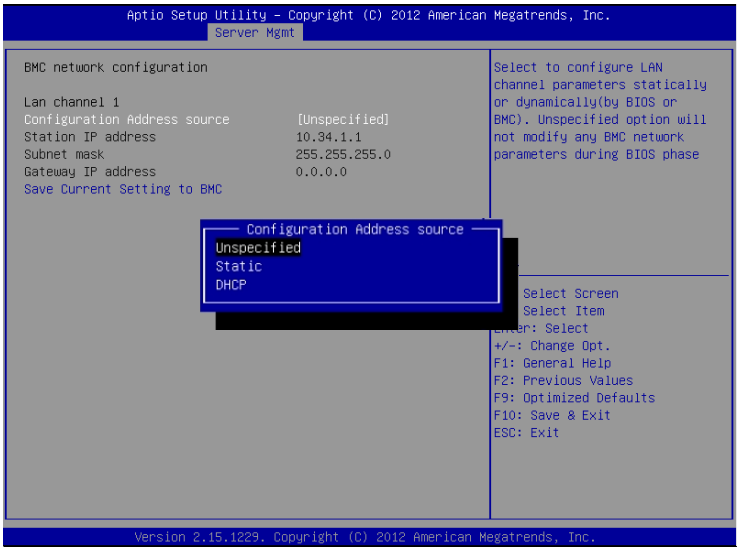


4.3 BMC Network Configuration

Select **[**Use Static IP**]** you can modify IP Address and Subnet Mask.

Select [DHCP Enable] you will get IP Address and Subnet Mask from DHCP Server.

The default setting is [**Unspecified**].


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Server Mgmt
BMC network configuration
Lan channel 1
Configuration Address source [Unspecified]
Station IP address 10.34.1.1
Subnet mask 255.255.255.0
Gateway IP address 0.0.0.0
Save Current Setting to BMC
Select to configure LAN channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify any BMC network parameters during BIOS phase
Configuration Address source
Unspecified
Static
DHCP
Select Screen
Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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Save Current Setting to BMC:

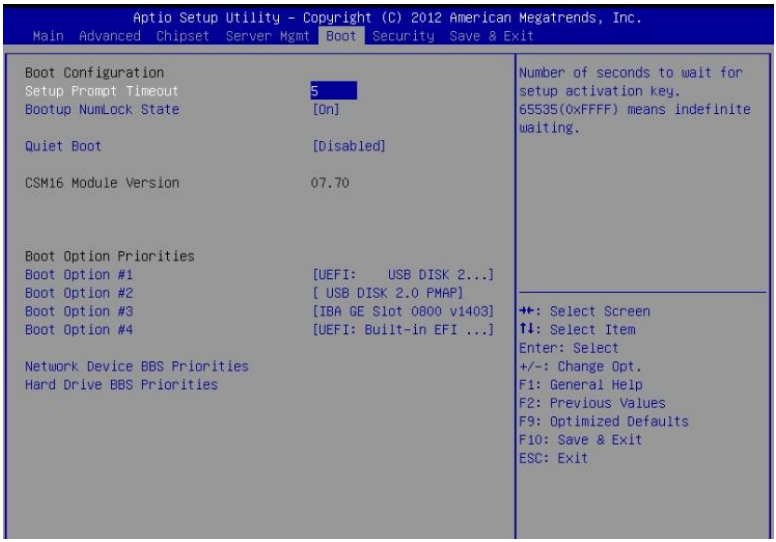
Once this function is clicked, current settings, like IP, subnet mask and router IP, will be sent to BMC directly.

5. Boot Configuration

In this section, it will display the available devices on your system for you to configure the boot settings and the boot priority.

Setup Prompt Timeout shows the number of seconds to wait for setup activation key. The default value is **[5]** seconds.

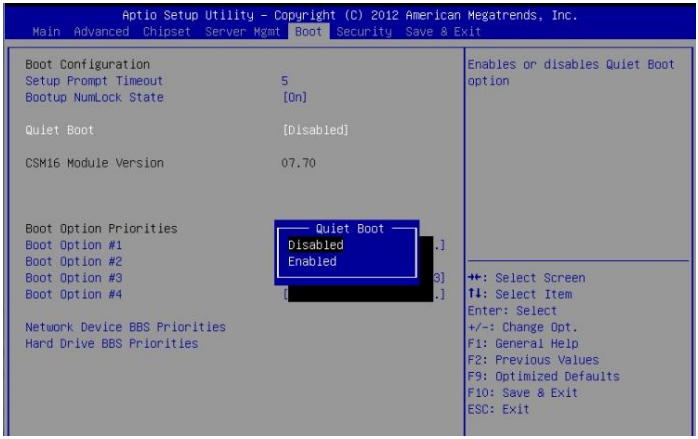
Bootup NumLock State sets the input mode of the numeric keypad at boot up. There are On and Off for selection. The default setting is **[On].**



5.1 Quiet Boot

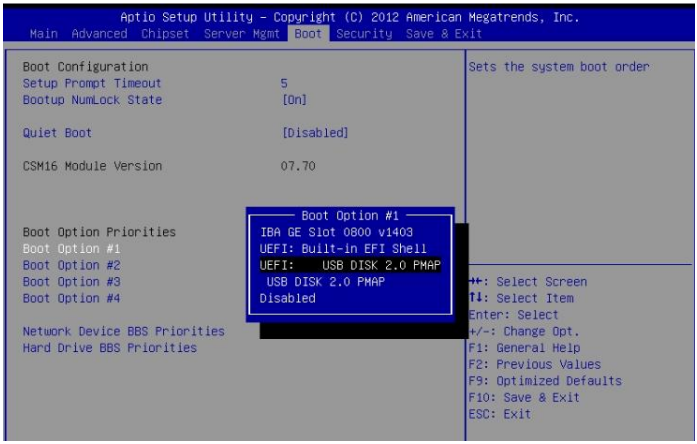
Quiet Boot determines if the BIOS should hide the normal POST messages with the motherboard or system manufacturer's full screen logo. When it is enabled, the BIOS will display the full screen logo during the boot-up sequence, hiding normal POST messages. When it is disabled, the BIOS will display the POST message.

The default is [**Disabled**], and it is recommended to do so.



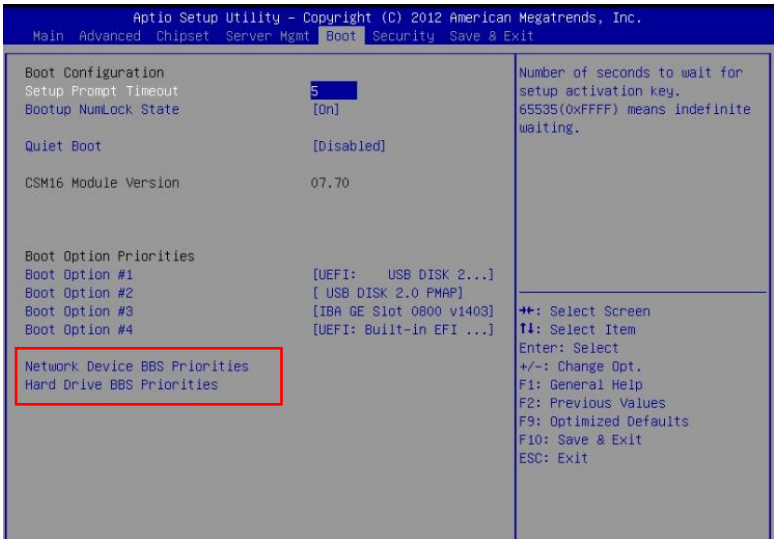
5.2 Boot Option Priorities

Boot Device Priority allows you to set the booting priority of the 1st, 2nd, 3rd and 4th Device.

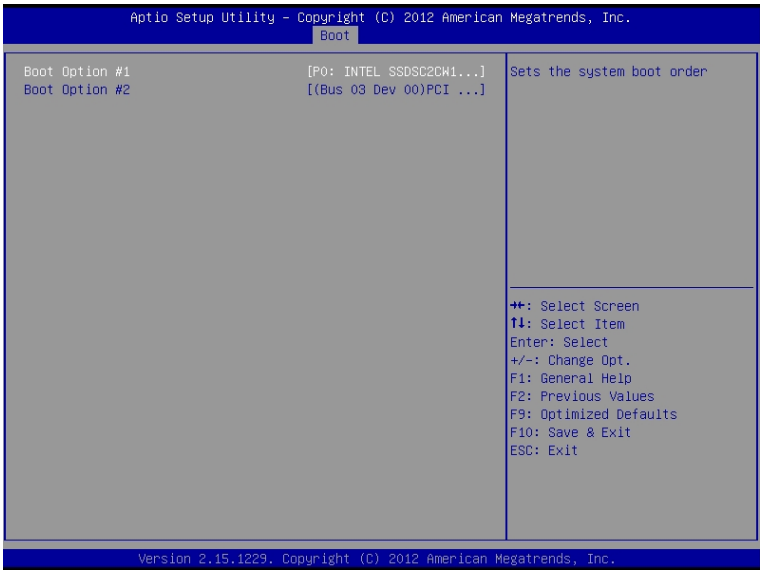


5.3 Network Device BBS & Hard Drive BBS Priorities

In the BIOS mode the boot devices are organized by type of devices (Hard Drives, CD/DVD, and Network). If you click on the **Hard Drive BBS Priorities** you will enter a submenu that presents all the drives connected to the system. Here you can define the boot order for the Hard disks. For example you can specify an SDD as the first priority (Boot Option #1) and a HDD as the second priority (Boot Option #2). The same prioritization procedure can be used for the CD/DVD as well as for the **Network Devices BBS Priorities**.



Network Devices BBS Priorities


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Boot
Boot Option #1 [P0: INTEL SSDSC2CW1...]
Boot Option #2 [(Bus 03 Dev 00)PCI ...]
Sets the system boot order
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
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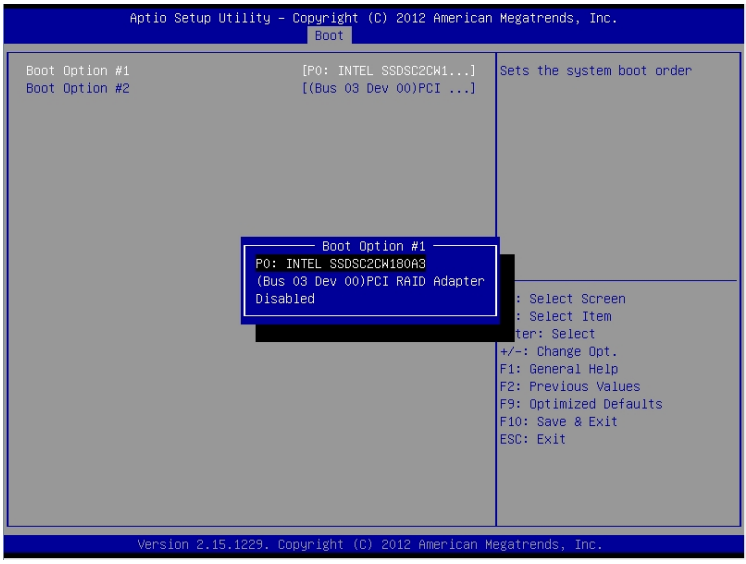
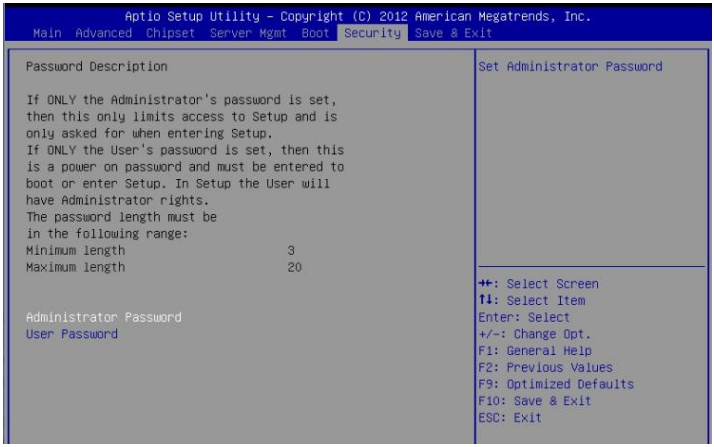
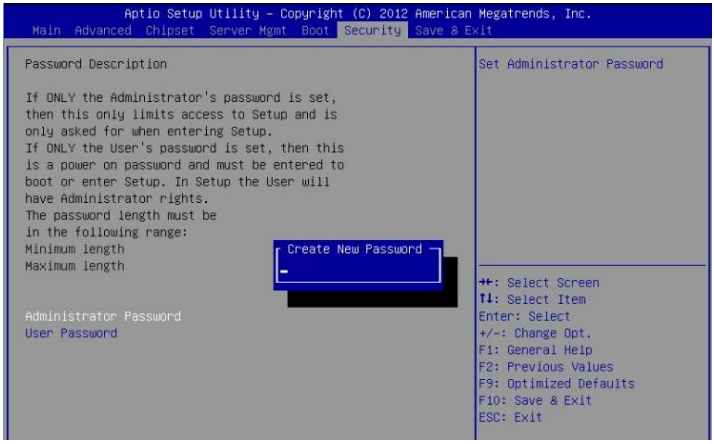
Hard Drive BBS Priorities


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Boot
Boot Option #1 [P0: INTEL SSDSC2CW1...]
Boot Option #2 [(Bus 03 Dev 00)PCI ...]
Sets the system boot order
Boot Option #1
P0: INTEL SSDSC2CW180A3
(Bus 03 Dev 00)PCI RAID Adapter
Disabled
: Select Screen
: Select Item
ter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit
Version 2.15.1229. Copyright (C) 2012 American Megatrends, Inc.

6. Security

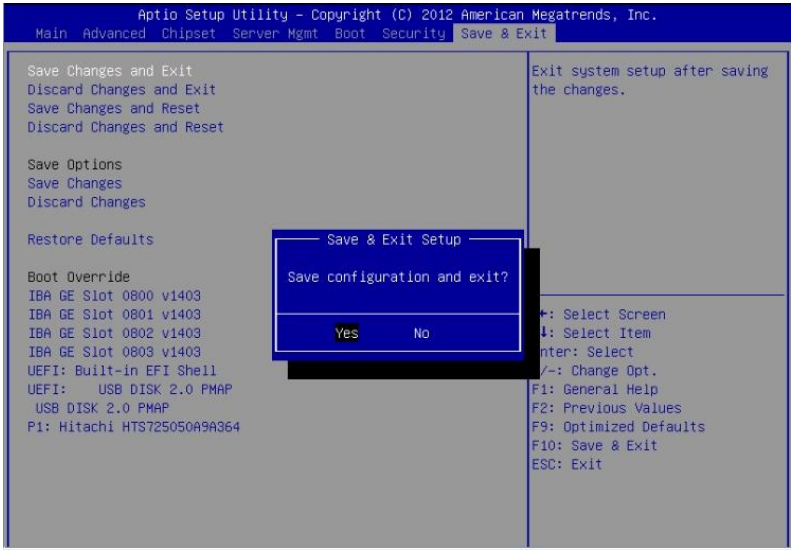
In this section, you may set or change the **administrator/user password** for the system.


Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password length must be in the following range:
Minimum length 3
Maximum length 20
Administrator Password
User Password
Set Administrator Password
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

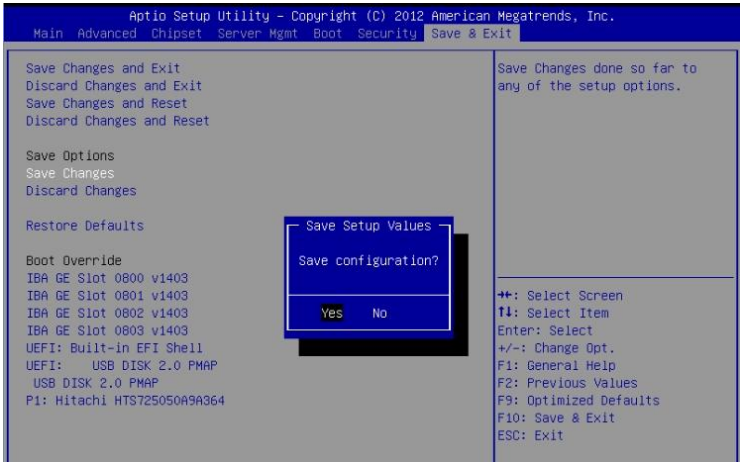

Aptio Setup Utility – Copyright (C) 2012 American Megatrends, Inc.
Main Advanced Chipset Server Mgmt Boot Security Save & Exit
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights.
The password length must be in the following range:
Minimum length
Maximum length
Create New Password
Administrator Password
User Password
Set Administrator Password
→←: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F9: Optimized Defaults
F10: Save & Exit
ESC: Exit

7. Save and Exit

When you select **Save Changes and Exit**, it will pop-out the following message, “Save configuration changes and exit setup?” Select [Yes] to save the changes and exit the BIOS SETUP or select [No] to get back to the previous screen.



When you select **Save Changes**, it will pop-out the following message, “Save configuration?” Select [Yes] to save the changes or select [No] to get back to the previous screen.



When you select **Restore Defaults**, it will pop-out the following message, “Load Optimized Defaults?” Select [Yes] to load optimized defaults or select [No] to get back to the previous screen.